

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101570,904
Source: TFWP
Date Processed by STIC: 3-22-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/570,904

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules**, **each n or Xaa can only represent a single residue**. Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/570,904

DATE: 03/22/2006
TIME: 14:56:03

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

3 <110> APPLICANT: TAKESHIMA, Seiji
 4 MATSUMURA, Tadanobu
 5 KISHIMOTO, Takahide
 6 OKA, Masanori
 7 HIRAYAMA, Noriaki
 9 <120> TITLE OF INVENTION: MODIFIED PYRROLOQUINOLINE QUINONE (PQQ) DEPENDENT GLUCOSE
 DEHYDROGENASE
 10 EXCELLENT IN SUBSTRATE SPECIFICITY
 12 <130> FILE REFERENCE: 251134
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/570,904
 C--> 14 <141> CURRENT FILING DATE: 2006-03-07
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/012508
 15 <151> PRIOR FILING DATE: 2004-08-31
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-315797
 18 <151> PRIOR FILING DATE: 2003-09-08
 20 <150> PRIOR APPLICATION NUMBER: JP 2003-315799
 21 <151> PRIOR FILING DATE: 2003-09-08
 23 <150> PRIOR APPLICATION NUMBER: JP 2004-060283
 24 <151> PRIOR FILING DATE: 2004-03-04
 26 <150> PRIOR APPLICATION NUMBER: JP 2004-060282
 27 <151> PRIOR FILING DATE: 2004-03-04
 29 <150> PRIOR APPLICATION NUMBER: JP 2004-151905
 30 <151> PRIOR FILING DATE: 2004-05-21
 32 <160> NUMBER OF SEQ ID NOS: 94
 34 <170> SOFTWARE: PatentIn version 3.1
 36 <210> SEQ ID NO: 1
 37 <211> LENGTH: 455
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Acinetobacter baumannii
 41 <400> SEQUENCE: 1
 43 Asp Ile Pro Leu Thr Pro Ala Gln Phe Ala Lys Thr Glu Asn
 44 1 5 10 15
 47 Phe Asp Lys Lys Val Ile Leu Ser Asn Leu Asn Lys Pro His Ala Leu
 48 20 25 30
 51 Leu Trp Gly Pro Asp Asn Gln Ile Trp Leu Thr Glu Arg Ala Thr Gly
 52 35 40 45
 55 Lys Ile Leu Arg Val Asn Pro Val Ser Gly Ser Ala Lys Thr Val Phe
 56 50 55 60
 59 Gln Val Pro Glu Ile Val Ser Asp Ala Asp Gly Gln Asn Gly Leu Leu
 60 65 70 75 80
 63 Gly Phe Ala Phe His Pro Asp Phe Lys His Asn Pro Tyr Ile Tyr Ile
 64 85 90 95
 67 Ser Gly Thr Phe Lys Asn Pro Lys Ser Thr Asp Lys Glu Leu Pro Asn
 68 100 105 110

(Pg. 8)
 EPO's Not Comply
 Corrected Diskette Needed
 (pg. 6-7) ↵

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/570,904

DATE: 03/22/2006
TIME: 14:56:03

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

71 Gln Thr Ile Ile Arg Arg Tyr Thr Tyr Asn Lys Thr Thr Asp Thr Phe
72 115 120 125
75 Glu Lys Pro Ile Asp Leu Ile Ala Gly Leu Pro Ser Ser Lys Asp His
76 130 135 140
79 Gln Ser Gly Arg Leu Val Ile Gly Pro Asp Gln Lys Ile Tyr Tyr Thr
80 145 150 155 160
83 Ile Gly Asp Gln Gly Arg Asn Gln Leu Ala Tyr Leu Phe Leu Pro Asn
84 165 170 175
87 Gln Ala Gln His Thr Pro Thr Gln Gln Glu Leu Asn Ser Lys Asp Tyr
88 180 185 190
91 His Thr Tyr Met Gly Lys Val Leu Arg Leu Asn Leu Asp Gly Ser Val
92 195 200 205
95 Pro Lys Asp Asn Pro Ser Phe Asn Gly Val Val Ser His Ile Tyr Thr
96 210 215 220
99 Leu Gly His Arg Asn Pro Gln Gly Leu Ala Phe Ala Pro Asn Gly Lys
100 225 230 235 240
103 Leu Leu Gln Ser Glu Gln Gly Pro Asn Ser Asp Asp Glu Ile Asn Leu
104 245 250 255
107 Val Leu Lys Gly Gly Asn Tyr Gly Trp Pro Asn Val Ala Gly Tyr Lys
108 260 265 270
111 Asp Asp Ser Gly Tyr Ala Tyr Ala Asn Tyr Ser Ala Ala Thr Asn Lys
112 275 280 285
115 Ser Gln Ile Lys Asp Leu Ala Gln Asn Gly Ile Lys Val Ala Thr Gly
116 290 295 300
119 Val Pro Val Thr Lys Glu Ser Glu Trp Thr Gly Lys Asn Phe Val Pro
120 305 310 315 320
123 Pro Leu Lys Thr Leu Tyr Thr Val Gln Asp Thr Tyr Asn Tyr Asn Asp
124 325 330 335
127 Pro Thr Cys Gly Glu Met Ala Tyr Ile Cys Trp Pro Thr Val Ala Pro
128 340 345 350
131 Ser Ser Ala Tyr Val Tyr Thr Gly Gly Lys Lys Ala Ile Pro Gly Trp
132 355 360 365
135 Glu Asn Thr Leu Leu Val Pro Ser Leu Lys Arg Gly Val Ile Phe Arg
136 370 375 380
139 Ile Lys Leu Asp Pro Thr Tyr Ser Thr Thr Leu Asp Asp Ala Ile Pro
140 385 390 395 400
143 Met Phe Lys Ser Asn Asn Arg Tyr Arg Asp Val Ile Ala Ser Pro Glu
144 405 410 415
147 Gly Asn Thr Leu Tyr Val Leu Thr Asp Thr Ala Gly Asn Val Gln Lys
148 420 425 430
151 Asp Asp Gly Ser Val Thr His Thr Leu Glu Asn Pro Gly Ser Leu Ile
152 435 440 445
155 Lys Phe Thr Tyr Asn Gly Lys
156 450 455
159 <210> SEQ ID NO: 2
160 <211> LENGTH: 1368
161 <212> TYPE: DNA
162 <213> ORGANISM: Acinetobacter baumannii
164 <400> SEQUENCE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/570,904

DATE: 03/22/2006
TIME: 14:56:03

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

165	gatataccctc tgacacctgc tcagttcgca aaagcgaaaa cagaaaattt ·tgataaaaaaa	60
167	gtgattctgt ccaatttaaa taaaccacat gctttgttat gggggccaga taatcaaatt	120
169	tgtttaaccg aacgtcaac tggcaaattt ttaagagtaa atcctgtatc tggtagcgcg	180
171	aaaacagtat ttccagggtcc tggaaattgtg agtgatgctg atggcaaaa tgggttgtta	240
173	gggtttgtt ttcattcctga cttaaacat aaccctata tctatatttc aggacttt	300
175	aaaaaatccaa aatctacaga taaagagttt cctaatcaga cgattattcg tagatatacc	360
177	tataataaaaaa ctacagatac atttgaaaag cctattgatt tgattgcagg tttaccgtca	420
179	tcaaaagatc atcagtctgg tcgtctcggtt attggtccag accaaaaaat ctactatacg	480
181	atgggtgacc aagggtcgtaa tcagttagct tatctgttct taccgaatca ggcacagcat	540
183	actccgactc agcaagagct caatagtaaa gactaccata catatatggg taaagtatta	600
185	cgtttaatc tggacggcag tgcgttacaaa gacaacccaa gctttAACGG cgtatgtgagt	660
187	catatctaca cttagggca ccgtaatcca caagggttag catttgcccc aaatggaaag	720
189	cttttacaat ctgagcaagg accaaattct gatgatggaa ttaaccttgtt attaaaaggt	780
191	ggttaactatg gctggccaaa tgttagctgg tataaagatg acatgtggta tgcctatgca	840
193	aactattcgg cagcaaccaa taaatcacaa attaaagatt tagctaaaaa cgggataaaaa	900
195	gttagcaacag gtgttctgt gactaaagag tctgaatggc ctggtaaaaaa ctttgcgcg	960
197	ccttgaaaaa ctttatatac ggtacaagat acctataact ataatgaccc tacttgtgg	1020
199	gagatggcat atatttgcgtt gccaacgggtt qcaccgtcat cagcatatgt atatacggga	1080
201	ggcaaaaaag cgattccagg gtgggaaaat acattattgg tcccatctt aaaacgtggg	1140
203	gtgatttcc gtattaaatt ggacccgaca tatagcacga ctttggatga tgctatccca	1200
205	atgtttaaaa gcaataaccg ttatcgat gtcatcgcta gtccagaagg taatacctt	1260
207	tatgtgctga ctgatacagc ggggatgtt caaaaagatg atgggttgtt cactcatact	1320
209	ttagagaatc ccgggtctt cattaaattt acatataacg gtaagtaa	1368
212	<210> SEQ ID NO: 3	
213	<211> LENGTH: 33	
214	<212> TYPE: DNA	
215	<213> ORGANISM: Artificial	
217	<220> FEATURE:	
218	<223> OTHER INFORMATION: Artificial Sequence oligonucleotide	
220	<400> SEQUENCE: 3	
221	agtgtatgctg atgggatataa tgggttgtta ggt	33
224	<210> SEQ ID NO: 4	
225	<211> LENGTH: 33	
226	<212> TYPE: DNA	
227	<213> ORGANISM: Artificial	
229	<220> FEATURE:	
230	<223> OTHER INFORMATION: Artificial Sequence oligonucleotide	
232	<400> SEQUENCE: 4	
233	agtgtatgctg atggggagaa tgggttgtta ggt	33
236	<210> SEQ ID NO: 5	
237	<211> LENGTH: 33	
238	<212> TYPE: DNA	
239	<213> ORGANISM: Artificial	
241	<220> FEATURE:	
242	<223> OTHER INFORMATION: Artificial Sequence oligonucleotide	
244	<400> SEQUENCE: 5	
245	agtgtatgctg atgggacaaa tgggttgtta ggt	33
248	<210> SEQ ID NO: 6	
249	<211> LENGTH: 33	

RAW SEQUENCE LISTING DATE: 03/22/2006
PATENT APPLICATION: US/10/570,904 TIME: 14:56:03

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
256 <400> SEQUENCE: 6
257 agtgatgctg atggatgaa tggttgtta ggt 33
260 <210> SEQ ID NO: 7
261 <211> LENGTH: 33
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
268 <400> SEQUENCE: 7
269 agtgatgctg atgggggaa tggttgtta ggt 33
272 <210> SEQ ID NO: 8
273 <211> LENGTH: 33
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
280 <400> SEQUENCE: 8
281 agtgatgctg atggaaagaa tggttgtta ggt 33
284 <210> SEQ ID NO: 9
285 <211> LENGTH: 33
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
292 <400> SEQUENCE: 9
293 gaccaaggc gtaatattt agcttatctg ttc 33
296 <210> SEQ ID NO: 10
297 <211> LENGTH: 33
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
304 <400> SEQUENCE: 10
305 gaccaaggc gtaatgtt agcttatctg ttc 33
308 <210> SEQ ID NO: 11
309 <211> LENGTH: 33
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
316 <400> SEQUENCE: 11
317 gaccaaggc gtaatgcatt agcttatctg ttc 33
320 <210> SEQ ID NO: 12
321 <211> LENGTH: 43
322 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 03/22/2006
 PATENT APPLICATION: US/10/570,904 TIME: 14:56:03

Input Set : A:\251134.st25 - Sequence Listing.txt
 Output Set: N:\CRF4\03222006\J570904.raw

```

323 <213> ORGANISM: Artificial
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
328 <400> SEQUENCE: 12
329 cgaatcaggc acagcatact ccgactcagc aagagctcaa tag          43
332 <210> SEQ ID NO: 13
333 <211> LENGTH: 45
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (17)..(25)
343 <223> OTHER INFORMATION: n stands for any base
346 <400> SEQUENCE: 13
W--> 347 gtaagaacag ataagcnnnn nnnnnacgac cttggtcacc aatcg          45
350 <210> SEQ ID NO: 14
351 <211> LENGTH: 40
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
358 <400> SEQUENCE: 14
359 gatgctgatg ggcaaaatgg tttgttaggt tttgctttc          40
362 <210> SEQ ID NO: 15
363 <211> LENGTH: 38
364 <212> TYPE: DNA
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
370 <220> FEATURE:
371 <221> NAME/KEY: misc_feature
372 <222> LOCATION: (7)..(15)
373 <223> OTHER INFORMATION:
375 <220> FEATURE:
376 <221> NAME/KEY: misc_feature
377 <222> LOCATION: (7)..(15)
378 <223> OTHER INFORMATION: n stands for any base
W--> 381 <400> 15
W--> 382 actcacnnnn nnnnnaacct gaaaactgt tttcgcg          38
385 <210> SEQ ID NO: 16
386 <211> LENGTH: 50
387 <212> TYPE: DNA
388 <213> ORGANISM: Artificial
390 <220> FEATURE:
391 <223> OTHER INFORMATION: Artificial Sequence oligonucleotide
393 <400> SEQUENCE: 16
394 ttaccgtca tcaaaaagatc atcagtctgg tcgtctcggtt attggccag          50

```

10/570, 904

Page 6

<210> 73
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Artificial Sequence oligonucleotide

<400> 73
ggcatatatt tgctggccannttgcacc gtcatcagc

39

pls explain "N" locations.

<210> 74
<211> 39
<212> DNA
<213> Artificial

<220>
<223> Artificial Sequence oligonucleotide

<400> 74
gctgactgtat acagcggggnngtacaaaa agatgtatgg

39

pls explain "N" locations.



See error explanation on
page 9.

<210> 87

<211> 38

<212> DNA

<213> The sequence of designed polinucleotide described as seq87

<400> 87

gctttacaa tctgaccaag gaccaaattc tgatgtat

polynucleotide

INVALID
Response

<210> 88

<211> 39

<212> DNA

<213> synthetic DNA

INVALID
Response

<400> 88

gaccaaggtc gtaatgcgtt agcttatctg ttcttaccg

38

39

See item # 11 on error
summary sheet.F Y I :

<213> responses has to be either Artificial, Unknown or genus/species.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/22/2006
PATENT APPLICATION: US/10/570,904 TIME: 14:56:04

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25
Seq#:15; N Pos. 7,8,9,10,11,12,13,14,15
Seq#:17; N Pos. 18,19,20,21,22,23,24,25,26
Seq#:19; N Pos. 16,17,18,19,20,21,22,23,24
Seq#:21; N Pos. 17,18,19
Seq#:30; N Pos. 16
Seq#:33; N Pos. 16
Seq#:34; N Pos. 16
Seq#:49; N Pos. 17
Seq#:58; N Pos. 17
Seq#:60; N Pos. 17
Seq#:61; N Pos. 17
Seq#:62; N Pos. 17
Seq#:63; N Pos. 17
Seq#:69; N Pos. 19,20
Seq#:70; N Pos. 19,20
Seq#:71; N Pos. 19,20
Seq#:73; N Pos. 20,21,22
Seq#:74; N Pos. 20,21,22

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/570,904

DATE: 03/22/2006
TIME: 14:56:04

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25
Seq#:15; N Pos. 7,8,9,10,11,12,13,14,15
Seq#:17; N Pos. 18,19,20,21,22,23,24,25,26
Seq#:19; N Pos. 16,17,18,19,20,21,22,23,24
Seq#:21; N Pos. 17,18,19
Seq#:30; N Pos. 16
Seq#:33; N Pos. 16
Seq#:34; N Pos. 16
Seq#:49; N Pos. 17
Seq#:58; N Pos. 17
Seq#:60; N Pos. 17
Seq#:61; N Pos. 17
Seq#:62; N Pos. 17
Seq#:63; N Pos. 17
Seq#:69; N Pos. 19,20
Seq#:70; N Pos. 19,20
Seq#:71; N Pos. 19,20
Seq#:73; N Pos. 20,21,22
Seq#:74; N Pos. 20,21,22

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/570,904

DATE: 03/22/2006
TIME: 14:56:04

Input Set : A:\251134.st25 - Sequence Listing.txt
Output Set: N:\CRF4\03222006\J570904.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:381 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:373
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:1168 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:73
L:1168 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:73
L:1168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:1180 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:74
L:1180 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:74
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0